INTERNATIONALSEARCHREPORT

International application No.
PCT/JP 2004/002098

A. CLASSIFICATIONOF SUBJECT MATTER			
Int.Cl ⁷ E01D19/10			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ E01D19/10,E01D6/00,E04G1/24			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
A	JP 3-26244 B2(FUDAGUMI Co.,LTD.) 1991.04.10, a whole document, Fig1-13, (Family:none)		1-6
A	JP 52-24321 Y2(YUUICHI YAMAMOTO) 1977.06.02, a whole document, Fig1-8, (Family:none)		1-6
	a whole document, rigi-8, (ramily:none)		
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflict with the application but cited to priority date and not in conflic			
"E" considered to be of particular relevance understand the principle or theory underlying the invention "E" earlier application or patent but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special responders on the common document of particular relevance; the claimed invention cannot			
special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed			
Date of the actual completion of the international search Date of mailing of the international search report			
17.05.2004		01. 6. 2004	
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